

CLAIMS

What is claimed is:

5 1. In a method for routing a short message into a data network in a
telecommunication system that includes a mobile communication network to which the data
network is connected, a telecommunication terminal connected to the mobile communication
network, and a first short message service center connected to the mobile communication
network and defined in the telecommunication terminal for use by the telecommunication
terminal in connection with short messaging, and wherein a short message addressed to a
predetermined destination number is routed from the telecommunication terminal to the first
short message service center, a mobile switching center in a numerical range of the mobile
communication network is determined from the predetermined destination number of the
addressed short message, and the short message is routed in Mobile Terminated format from
15 the first short message service center to the predetermined destination number, the
improvement comprising the steps of:

 routing the short message from the first short message service center to a
converter component based on the predetermined destination number which refers to the
converter component and which is in the numerical range of the mobile communication
20 network; and

 routing the short message from the converter component into the data network.

2. In a method in accordance with claim 1, wherein the converter component is disposed at a network address corresponding to the mobile switching center.

5 3. In a method in accordance with claim 1, wherein the data network is connected to the converter component.

4. In a method in accordance with claim 1, further comprising the step of converting, in the converter component, the predetermined destination number of the short message into a second destination number that refers to the data network.

5. In a method for routing a short message into a data network in a telecommunication system that includes a mobile communication network, a telecommunication terminal connected to the mobile communication network, a first short message service center connected to the mobile communication network and defined in the telecommunication terminal for use by the telecommunication terminal in connection with short messaging, and a second short message service center to which the data network is connected, and wherein a short message addressed to a predetermined destination number is routed from the telecommunication terminal to the first short message service center, a mobile switching center in a numerical range of the mobile communication network is determined from the predetermined destination number of the addressed short message, and the short message is

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routed in Mobile Terminated format from the first short message service center to the predetermined destination number, the improvement comprising the steps of:

routing the short message from the first short message service center to a converter component based on the predetermined destination number which refers to the converter component and which is in the numerical range of the mobile communication network;

converting, in the converter component, the Mobile Terminated format short message into a Mobile Originated format short message; and

routing the converted short message from the converter component to the second short message service center.

6. In a method in accordance with claim 5, wherein the converter component is disposed at a network address corresponding to the mobile switching center.

7. In a method in accordance with claim 5, wherein the data network is connected to the second short message service center, further comprising the step of converting, in the converter component, the predetermined destination number of the short message into a second destination number that refers to the second short message service center and to a third destination number in the data network.

8. In a method in accordance with claim 5, further comprising the step of routing, from the second short message service center to the first short message service center via the converter component, an acknowledgement message in response to receipt of the Mobile Terminated format short message by the second short message service center.

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9. In a system for routing a short message into a data network in a telecommunication system that includes a mobile communication network to which the data network is connected, a telecommunication terminal connected to the mobile communication network, and a first short message service center connected to the mobile communication network and defined in the telecommunication terminal for use by the telecommunication terminal in connection with short messaging, and wherein a short message addressed to a predetermined destination number is routed from the telecommunication terminal to the first short message service center, a mobile switching center in a numerical range of the mobile communication network is determined from the predetermined destination number of the addressed short message, and the short message is routed in Mobile Terminated format from the first short message service center to the predetermined destination number, the improvement comprising:

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a converter component connected to the mobile communication network and referred to by a destination number in the numerical range of the mobile communication network;

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means for routing the short message from the first short message center to the converter component based on the predetermined destination number which refers to the converter component; and

means for routing the short message from the converter component into the data network.

10. In a system in accordance with claim 9, wherein the converter component is located at a network address corresponding to the mobile switching center.

11. In a system in accordance with claim 9, wherein the data network is connected to the converter component.

12. In a system in accordance with claim 9, wherein the converter component comprises means for converting the predetermined short message destination number into a second destination number that refers to the data network.

13. In a system for routing a short message into a data network in a telecommunication system that includes a mobile communication network, a telecommunication terminal connected to the mobile communication network, a first short message service center connected to the mobile communication network and defined in the telecommunication terminal for use by the telecommunication terminal in connection with short messaging, and a second

short message service center to which the data network is connected, and wherein a short message addressed to a predetermined destination number is routed from the telecommunication terminal to the first short message service center, a mobile switching center in a numerical range of the mobile communication network is determined from the predetermined destination number of the addressed short message, and the short message is routed in Mobile Terminated format from the first short message service center to the predetermined destination number, the improvement comprising:

a converter component connected to the mobile communication network and referred to by the predetermined destination number in the numerical range of the mobile communication network, said converter component comprising means for converting the Mobile Terminated format short message into a Mobile Originated format short message and means for sending the converted short message to the second short message service center.

14. In a system in accordance with claim 13, wherein the converter component is located at network address corresponding to the mobile switching center.

15. In a system in accordance with claim 13, wherein the converter component further comprises means for converting the predetermined destination number into a second destination number that refers to the second short message service center and to a third destination number in the data network.

16. In a system in accordance with claim 13, the improvement further comprising means for routing an acknowledgement message from the second short message service center to the first short message service center via the converter component to thereby provide to the first short message service center an acknowledgement in response to receipt of the Mobile Terminated format short message.
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